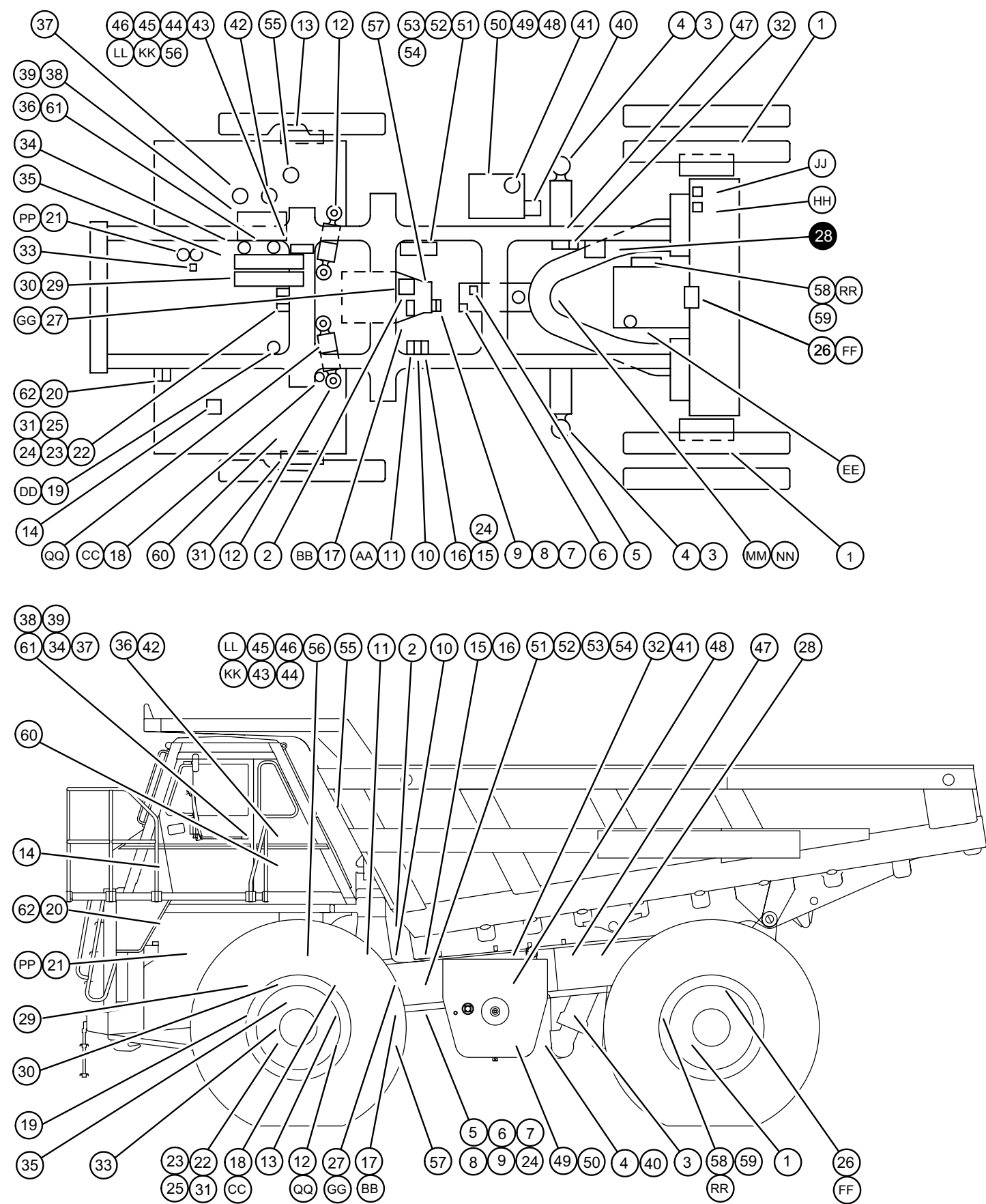


Related Manuals		
Description	Media Number	
Power Train		
Specifications	REN6507	
Systems Operation	REN6508	
Testing and Adjusting	REN6509	
Disassembly and Assembly	SEN61574	
Machine System		
Specifications: (Hydraulic System)	REN6515	
Testing & Adjusting: (Hydraulic System)	REN6516	
Specifications: (Steering System)	REN6510	
Testing & Adjusting: (Steering System)	REN6511	
Specifications: (Air System & Brakes)	REN6512	
Testing & Adjusting: (Air System & Brakes)	REN6513	
Specifications: Systems Operation, Testing & Adjusting: (Oil Evacuation System)	REN63391	
Specifications: Systems Operation, Testing & Adjusting: (Suspension Cylinder)	REN6514	
Electrical System		
Schematic: (Electrical System)	REN6518	
Additional Manuals		
Automatic Electronic Traction Aid (AETA)	SEN62966	

Tap Locations Pressure, Sampling, and Sensor		
Tap Number	Description	Schematic Location
AA	Pressure Tap (Hoist)	G-8
BB	Pressure Tap (Lockup Clutch Maximum Pressure)	B-12
CC	Sampling Valve (Torque Converter Pressure)	C-11
DD	Oil Sampling Valve (Brake)	G-8 / H-2
EE	Pressure Tap (Transmission Lubrication Pressure)	B-10
FF	Pressure Tap (Rear Brake Service)	F-12
GG	Pressure Tap (Torque Converter Pressure)	C-13
HH	Pressure Tap (Parking Brake)	D-12
JJ	Pressure Tap (Brake Cooling)	D-11
KK	Pressure Tap (Steering)	E-2
LL	Sampling Valve (Steering Oil)	B-3
MM	Pressure Tap (Hoist Cylinder - Head End)	D-8
NN	Pressure Tap (Hoist Cylinder - Head End)	D-8
PP	Scheduled Oil Sampling Valve (Engine Oil)	G-9
QQ	Pressure Tap (Front Brake)	L-7
RR	Pressure Tap (Transmission Control)	W-7



Machine Component and Tap Locations

Component Locations					
Item	Part Number	Description	Schematic Location	Item	Part Number
1	2A-7070	Service and Parking Brake (Rear)	F-13 / L-12	32	138-4733
2	9C-4907	Air Breather (Torque Converter and Transmission)	B-10	33	123-5150
3	145-1155	Heat Cylinder	D-8	35	104-1017
4	82-3272	Pin (Clutch)	D-8	36	97-5565
5	8P-3785	Screen	A-11	37	8X-6087
6	8P-3673	Relief Valve (Torque Converter Heat)	A-10	38	710-8018
7	111-6841	Transmission Charging Pump Section	A-12	39	97-5819
8	111-6841	Transmission Sump/Pump Section	A-12	40	92-2887
9	8P-3785	Screen	A-13	41	96-4675
10	111-6399	Brake Pump Section	G-8 / H-1	42	9P-2873
11	111-6399	Heat Pump Section	G-8	43	
12	105-3357	Steering Cylinder	F-2	44	
13	8W-7274	Hydraulic Caliper Service Brake (Front)	F-5 / H-5	45	175-7070
14	182-4288	Metering Pump (Steering)	E-2	46	
15	219-1564	Power Pump (Steering)	G-2 / C-2	47	112-1843
16	219-1564	Pressure Compensator Valve	C-2	48	153-2739
17	212-0284	Lockup Clutch and Solenoid Valve (Torque Converter)	B-12	49	81-6227
18	132-5447	Hydraulic Filter (Power Train)	B-11	50	72-3723
19	132-5448	Hydraulic Filter (Parking Brake Release)	G-8 / H-2	51	
20	8-44975	Shuttle Valve (Pressure Valve - Steering)	D-2	52	*194-1465
21	89-1911	Oil Filter (Engine)	B-6	53	*175-7852
22		Brake Release Section of the Electric Drive Pump	D-2	54	
23	209-3406	Secondary Steering Section of the Electric Drive Pump	B-7		
24	175-7051	Last Sampling Valve	G-10	55	143-9426
25		Relief Valve (Secondary Steering - Main)	D-2	56	9E-6495
26	25-6530	Slack Adjuster (Rear)	F-12 / G-3	57	
27	8P-1471	Relief Valve (Torque Converter Output)	C-13	58	212-0394
28	9Q-8008	Traction Control Valve	G-1	59	200-0370
29	141-4109	Oil Cooler (Rear Brakes)	F-11	60	
30	8E-6640	Screen	F-10	61	212-0394
31	209-3406	Prelubrication and Quick-Evac Section of the Electric Drive Pump	B-6 / G-10	62	9X-4495

(*) 773E Only
(**) 775E Only

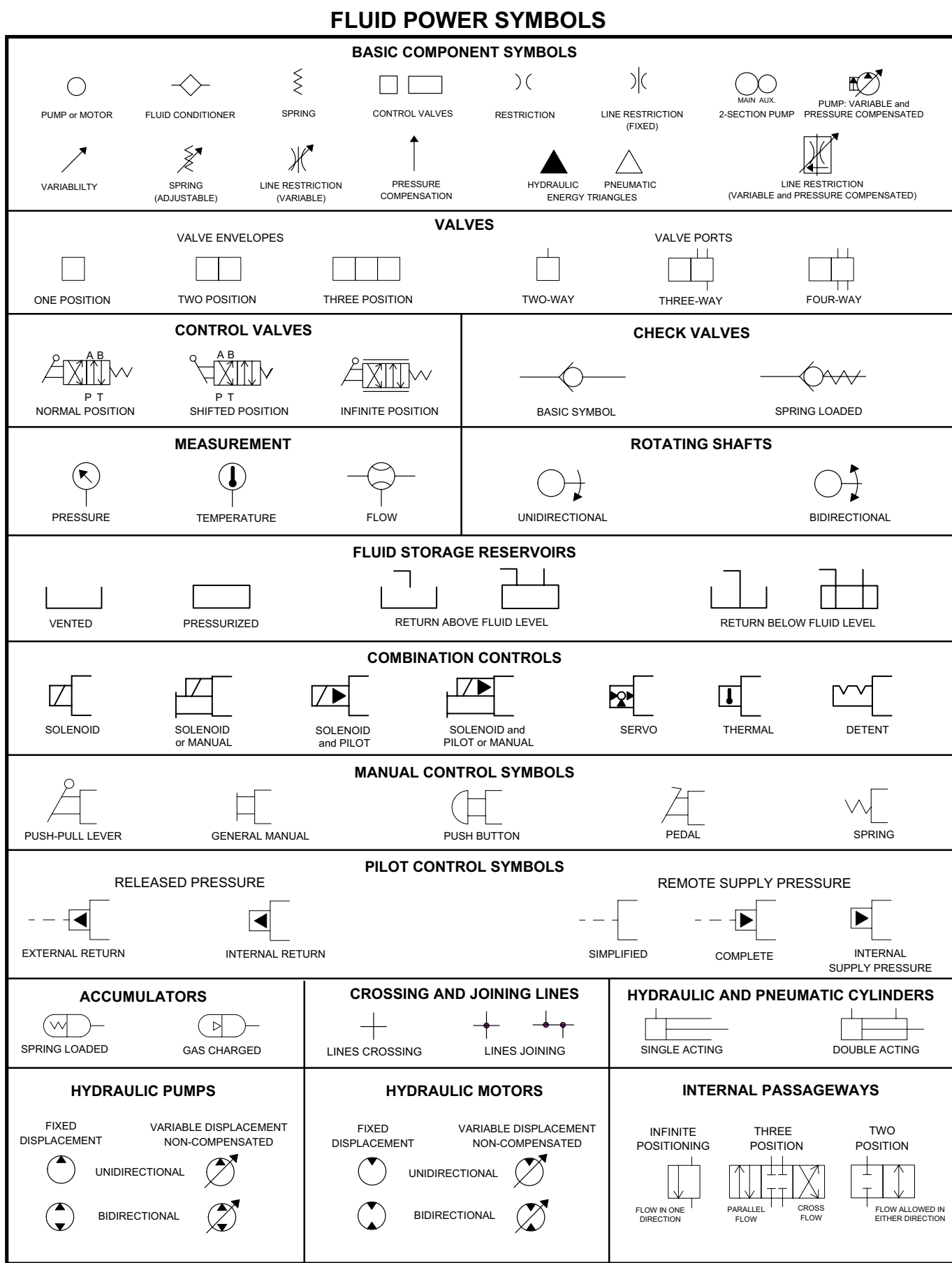
CATERPILLAR®

REN6506-00
July 2003

Schematic

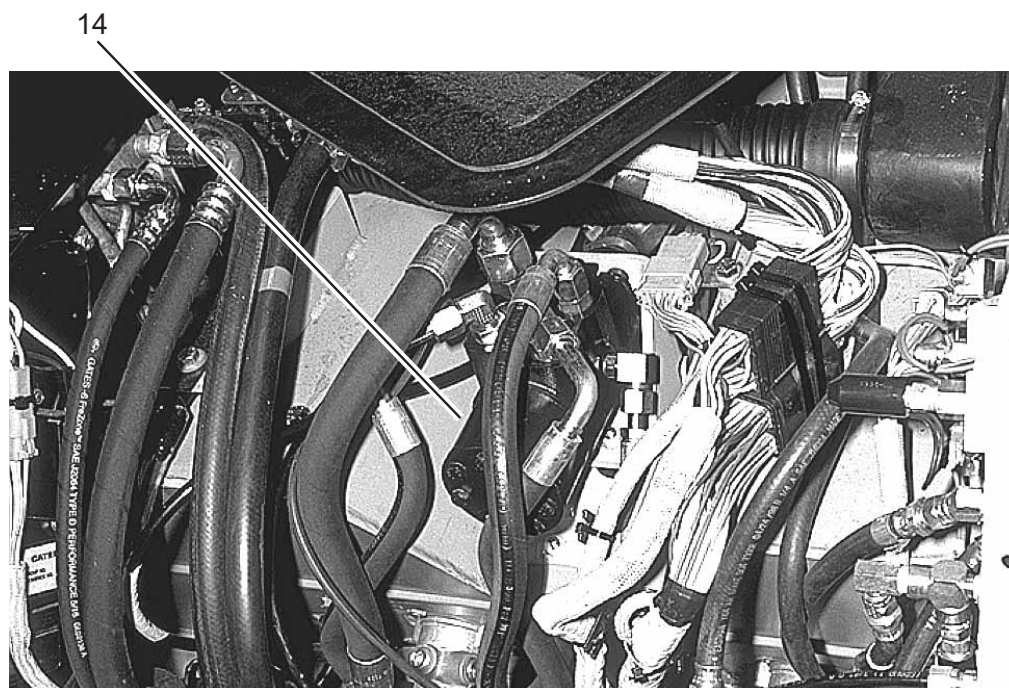
773 and 775E Off-Highway Truck Hydraulic System

BDA259-UP
BEC202-UP

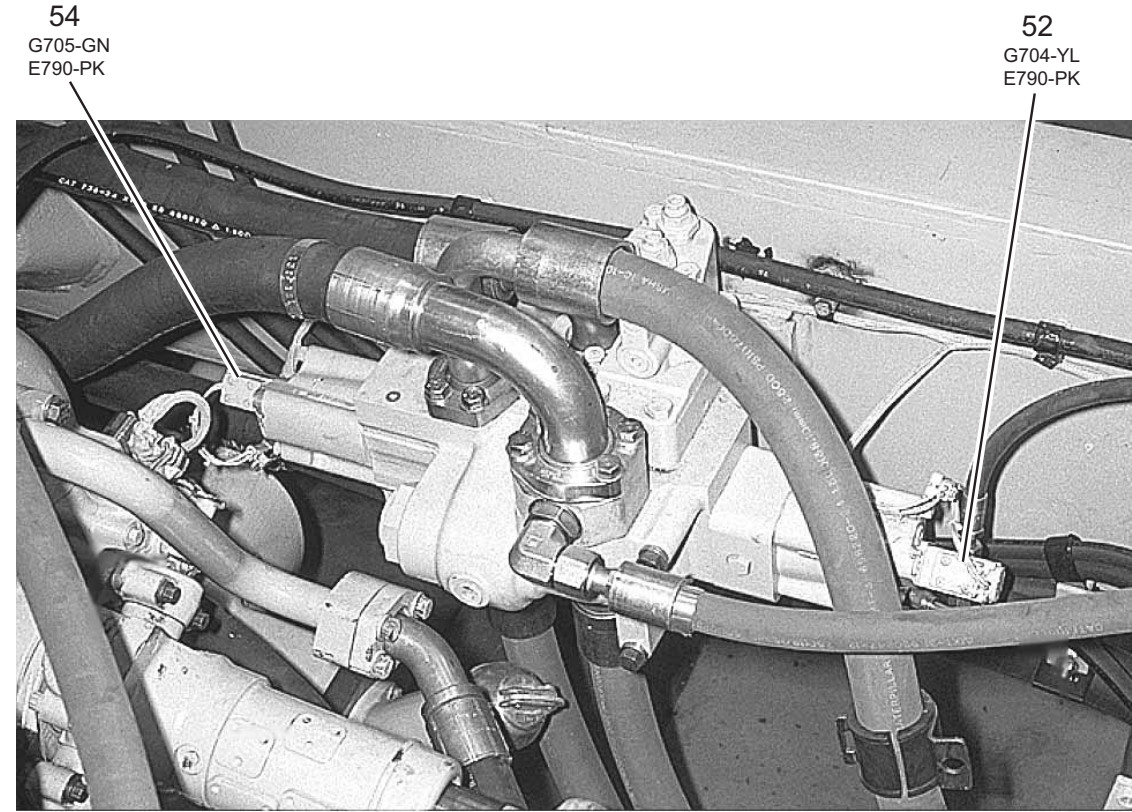


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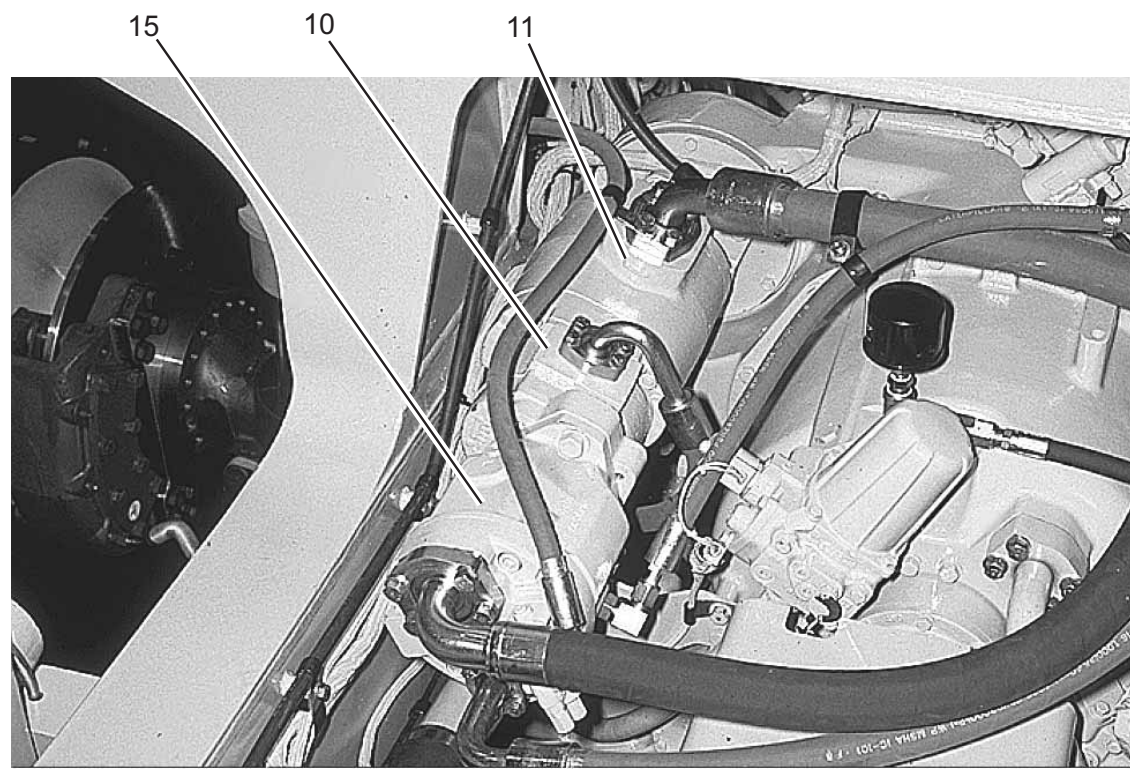
Printed in U.S.A.



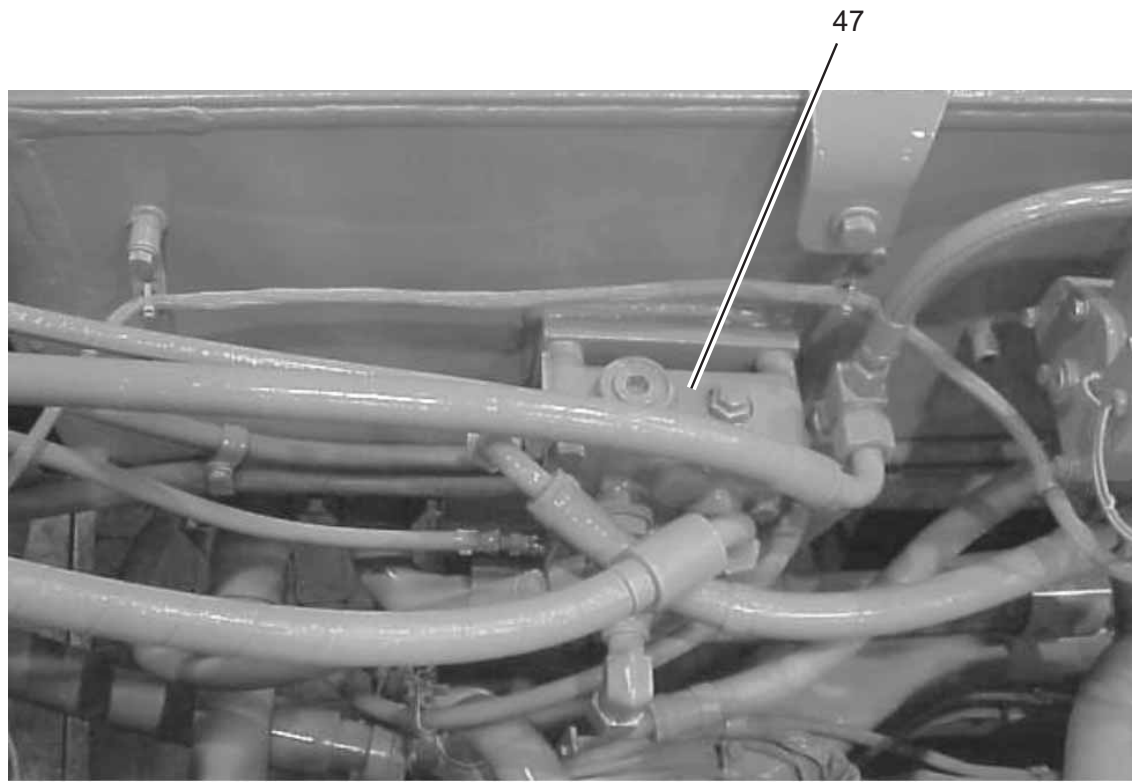
Steering Metering Pump (14)



Hoist Control Valve



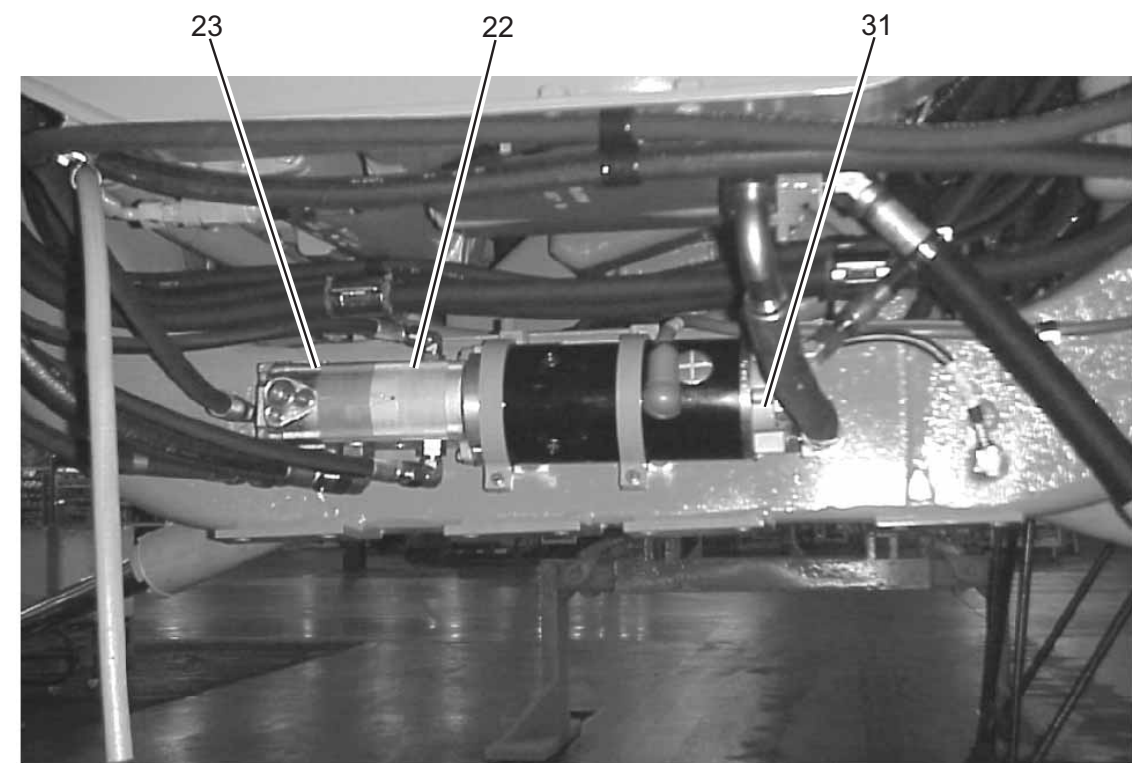
Main Pump



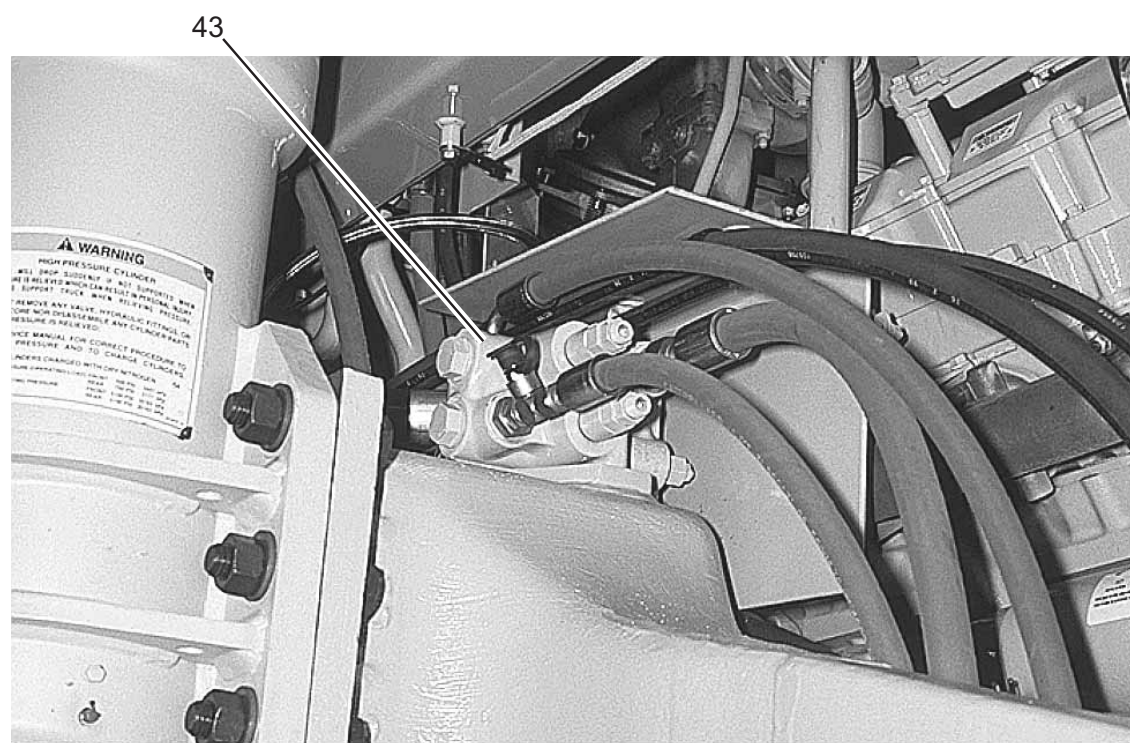
Parking and Secondary Brake Valve (47)



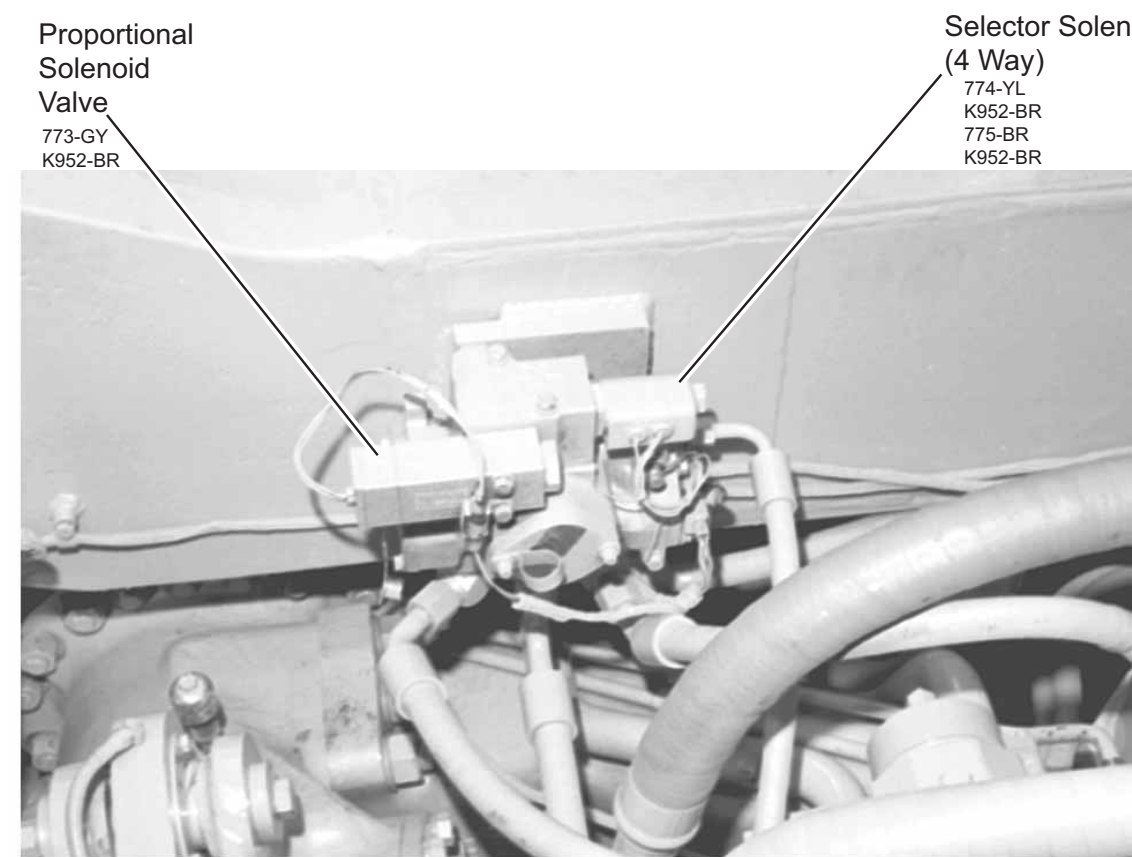
Hoist and Brake Hydraulic Tank



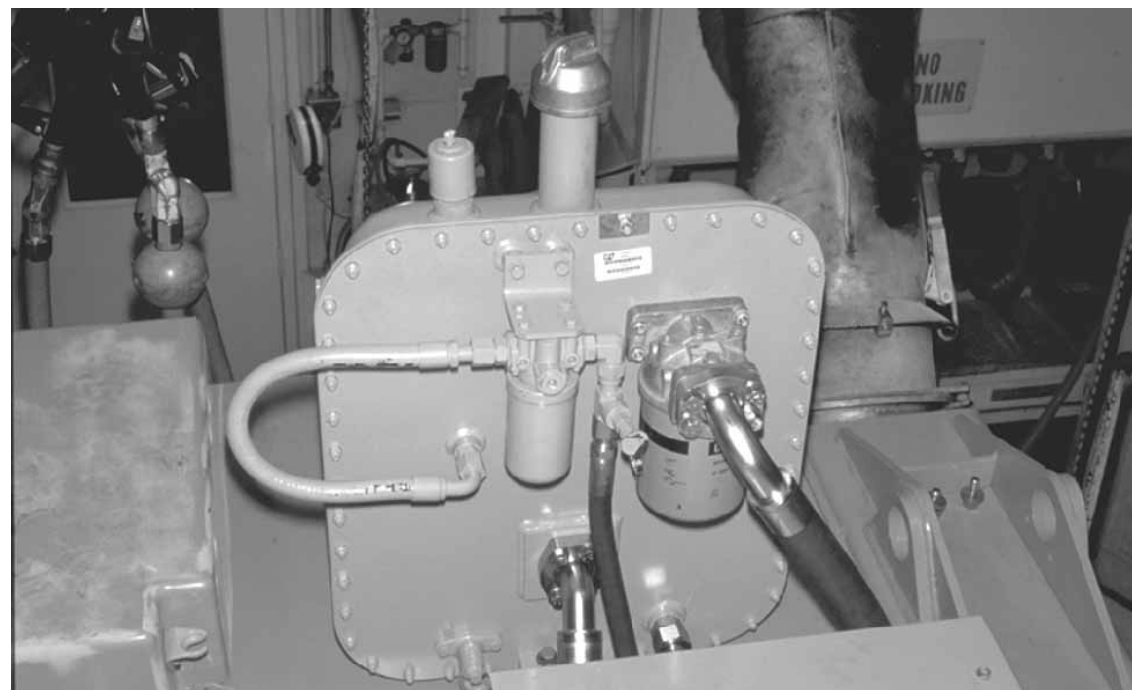
Pump and Motor for the Secondary Steering, Brake Release, Prelubrication, and Quick-Evac



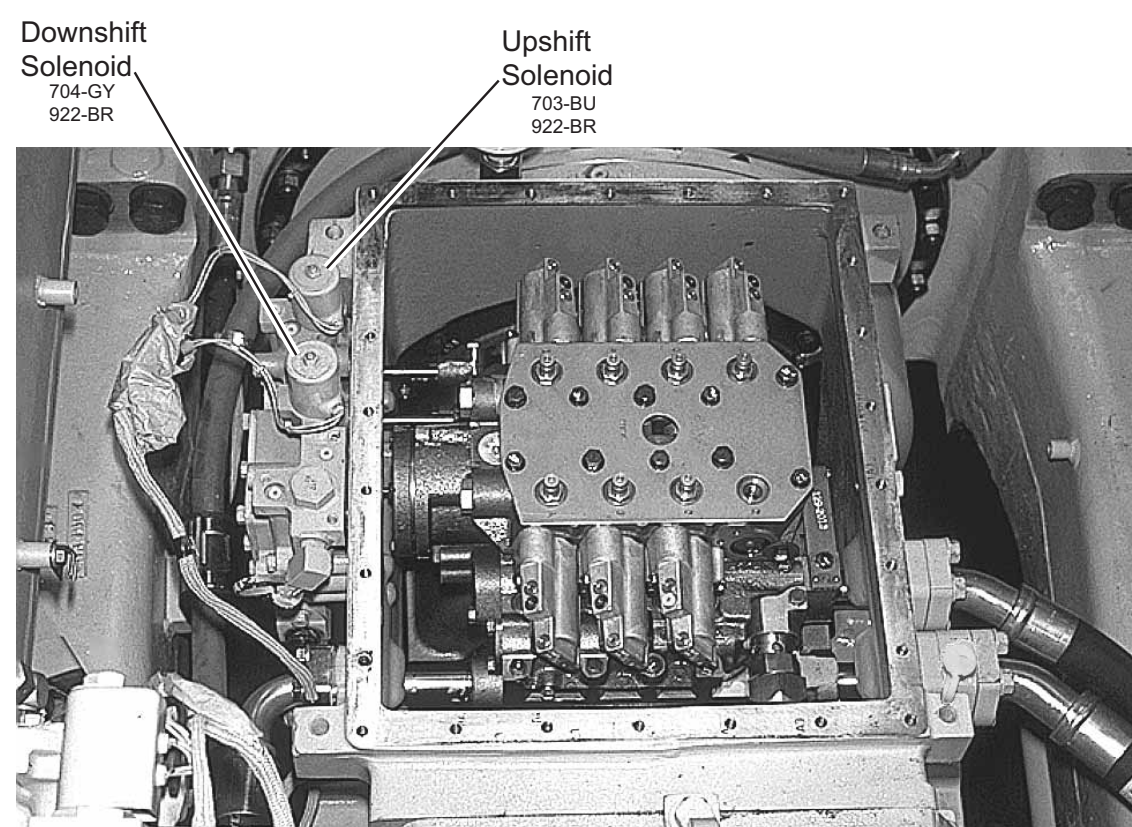
Steering Check and Relief Valve (43)



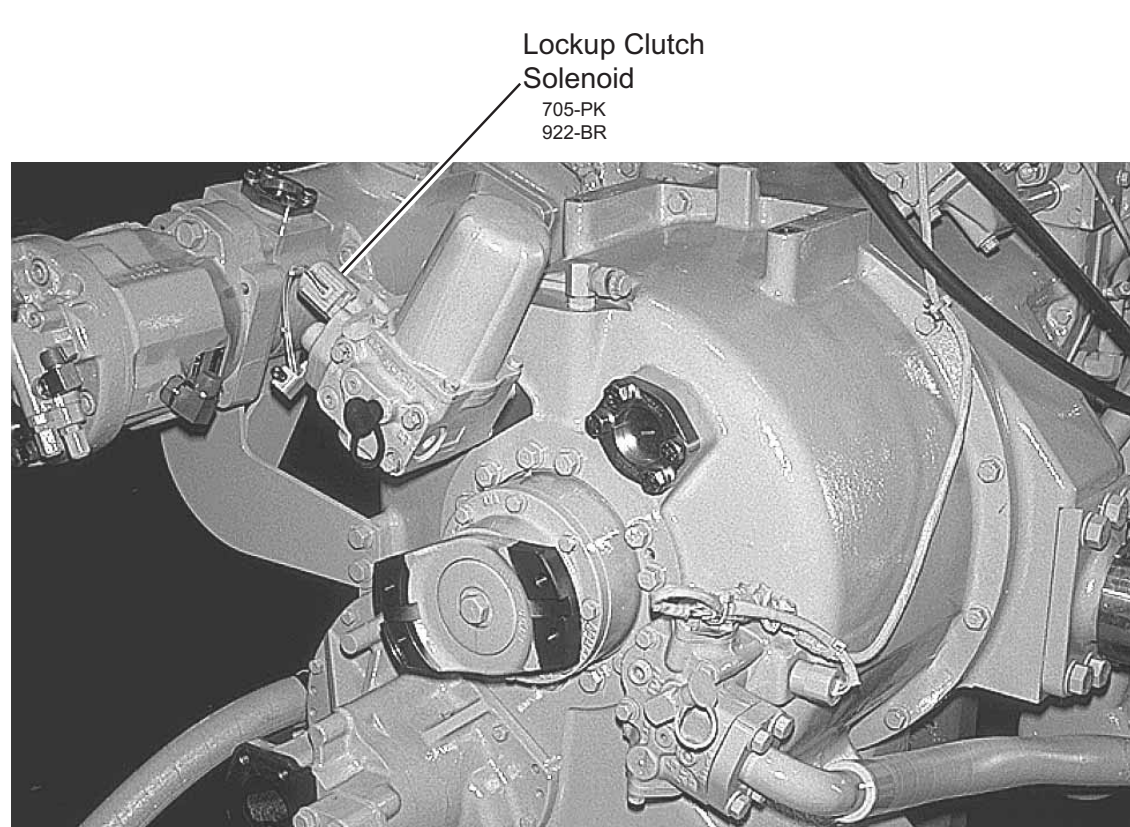
Traction Control Valve



Steering Hydraulic Tank



Transmission Hydraulic Control (58)



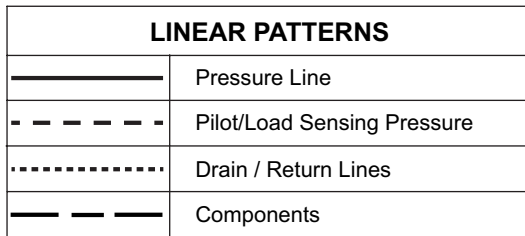
Transmission Rear View



Divertor Valve (Towing) (40)



Slack Adjuster Rear Brake (26)



THIS SCHEMATIC IS FOR THE 773E and 775E OFF HIGHWAY TRUCK